



The Cobalt® 9904-UDX-4K 12G/6G/3G/HD/SD UHD Up/Down/Cross Converter/Frame Sync/Embed/De-Embed Audio Processor is Cobalt's next generation of advanced scaler/frame synchronizers for the openGear® platform. The 9904-UDX-4K up-converts 12G/6G/3G/HD/SD to either UHD1 3840x2160 Square Division Multiplex (SDM) or Two-Sample Interleave (2SI) quad 3G-SDI based formats, or can output ST 2082 12G-SDI for single-wire 4K transport. With both 12G-SDI and quad 3G-SDI inputs, the 9904-UDX-4K can down-convert 12G and quad UHD. The 9904-UDX-4K provides an HDMI 2.0 output for economical 4K video monitoring. The 9904-UDX-4K offers numerous options, including SDR-to-HDR conversion and color correction.

The **9904-UDX-4K-IP** model offers the same functionality as the **9904-UDX-4K** SDI-based model, but additionally also provides dual 10GigE ports providing support for the emerging uncompressed video/audio/data over IP standards. The **9904-UDX-4K-DSP** model provides the same functionality as the 9904-UDX-4K SDI-based model, and also offers a DSP-based platform that supports multiple audio DSP options, including Dolby® Real-Time Loudness Leveling automatic loudness processing, Dolby® E/D/D+ encode/decode, and Linear Acoustic® UPMAX™ automatic up-mixing. This high-density openGear® design allows for up to five 9904-UDX-4K cards to be installed in one 2RU openGear® frame. Card control/monitoring is available via the free DashBoard user interface, or Cobalt's RESTful-based Reflex protocol.

Alternate Models

9904-UDX-4K-DSP 12G/6G/3G/HD/SD UHD Up/Down/Cross Converter/Frame Sync with DSP Advanced Audio Processing



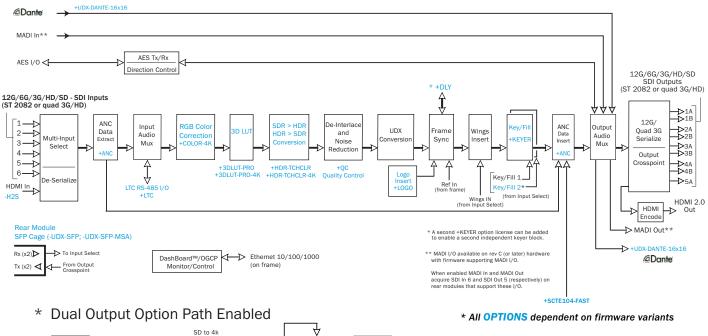
FEATURES	
High-density openGear comprehensive UHD UDX solution	Supports Cobalt's Reflex (JSON) Protocols
Supports all popular formats: 480i, 576i, 720p, 1080i, 1080pSF, 1080p, 2160p	Noise Reduction and Detail Enhancement provide image quality optimization
Full up/down conversion between HD/3G, ST 2082 12G-SDI single-wire, and SDQS/2SI quad 3G-SDI based formats, with ST 2082 12G-SDI single-wire and quad 3G UHD available at both input and output	Remote control/monitoring via Dashboard™ software, OGCP-9000 remote control panels, or Cobalt's RESTful-based Reflex protocol
Supports Square Division Multiplex (SDM) and Two-Sample Interleave (2SI) quad UHD	Hot-swappable
12G-SDI and quad 3G frame sync and user delay	Five-year warranty
OPTIONS	
SDR/HDR Conversion Options (+HDR-TCHCLR-4K, +HDR-TCHCLR) – Provides real-time intelligent HDR conversion powered by Technicolor®. Contains SDR-to-HDR, HDR-to-SDR, and HDR-to-HDR conversion with dynamic meta-data creation. Technicolor toolkits include SL-HDR encode,	Color Correction Options (+COLOR-4K, +COLOR) – Provides full RGB color corrector(offset, gain, gamma) with extended YCbCr proc controls with white hard clip, white soft clip, black hard clip, and saturation clip. Key/Fill Keyer Option (+KEYER-4K, +KEYER) – Provides keying using SDI inputs for key and fill signals. Alpha Threshold mode allows full-color key/fill using low-cost PC-based graphics host where the same signal provides a shared key/fill input. (A second +KEYER option license can be added to
SL-HDR decode, and ITM Intelligent Tone Management.	
3D LUT Options (+3DLUT-PRO-4K, +3DLUT-PRO) – 3D LUT (Look-Up Table) options provide 33 LUT mapping between 10-bit RGB and HDR color spaces.	
3D LUT Option (+3D-LUT-BBC) - Licensed product developed by the BBC, provides BBC 3D LUTS as optional SDR-to-HDR and HDR-to-SDR profiles.	enable a second independent keyer block.) -UDX-SFP Options – Adds daughter card supporting externally-accessible dual SFP cage. (See Ordering Information for SFP types available, descriptions, and further info.)
Audio LTC I/O Option (+LTC)	
Logo Insertion Option (+LOGO-4K, +LOGO) – Provides file-based insertion for branding local or destination branding/ID requirements.	-H2S Option – Adds daughter card supporting externally-accessible HDMI input
+DUAL-OUTPUT-9904 Enables 4K and HD outputs on the 9904-UDX series. This license does not enable a second 4K path. It only supports +3DLUT-PRO and -H2S Options on both outputs.	+UDX-DANTE-16x16 16x16 Dante 16 channel input 16 channel output option (Cannot be used simultaneously with +HDR-TCHCLR and +LOGO).
+SCTE104-FAST Frame Accurate SCTE104 Trigger. Software option - Available (per path)	+DLY option expands the standard 20 frame delay capability to 60 frames (All video formats) *Not available if +DUAL-OUTPUT-9904 option is installed
+QC Option Quality Check allows criteria such as black/ frozen frame events to propagate an event alert. This alert can be used by the card	

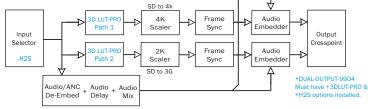
Presets function to invoke video routing changes, GPO, and other actions.



9904-UDX-4K

12G/6G/3G/HD/SD Up/Down/Cross Converter/Frame Sync/Embed/De-Embed/Audio Processor





This color denotes option *



Cobalt Digital Inc. 2506 Galen Drive Champaign IL, 61821 (217) 344-1243 info@cobaltdigital.com www.cobaltdigital.com

^{* +}DUAL-OUTPUT-9904 Enables 4K and HD outputs.

This software license does not enable a second 4K path. It only supports +3DLUT-PRO and -H2S options on both outputs.

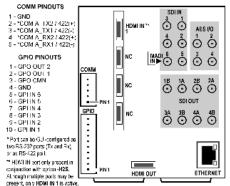
^{* -}H2S Option - Adds daughter card supporting externally-accessible HDMI input



⊙ II

⊙12

9904-UDX-4K • 12G/6G UHD UP/Down/Cross Converter / Frame Sync / Embed /De-Embed Audio Processor



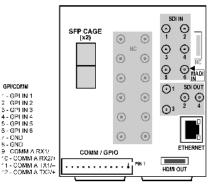
RM20-9904-A-HDBNC

Note: MADI I/O is available on rev C (or later) hardware with firmware supporting

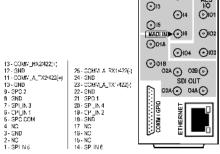
(respectively) on rear modules that support these I/O. Rear modules that support

MADI I/O show the MADI port locations that are SDI IN 6 and SDI OUT 5 alternatives

MADI I/O. When enabled MADI In and MADI Out acquire SDI In 6 and SDI Out 5



RM20-9904-C-HDBNC



RM20-9904-D-HDBNC

Note: Due to the alignment of the 9904 card and the -D rear module, the combination of the card and rear module will consume the adjacent odd frame slot in addition to the even slot occupied by the card.

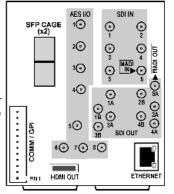
Note: This rear module cannot be installed in frame slots 19/20 location. The 9904-UDX card, when installation is attempted, will clash/interfere with the frame network controller card.

Note: (8) AES ports supported on card hardware rev -E and later. Earlier card versions support (4) AES ports (max).

(as shown in illustrations here)

GPICOMM A TX2/12 - COMM A TX2/13 - COMM A RX1/13 - COMM A RX1/0 - GND 7 - GND 6 - CPI IN 6 5 - GPI IN 3 4 - GPI IN 4 3 - GPI IN 3

2 - GPLIN 2 1 - GPLIN 1



RM20-9904-F-HDBNC

⊙¹

⊙2

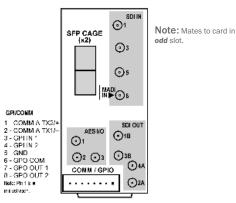
⊙3

O2 O1

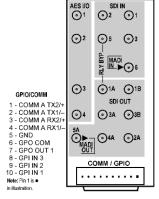
⊙5 **⊙**3

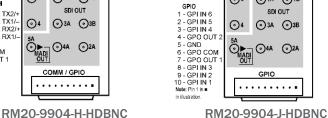
MADI IN ▶⊙6

⊙1A ⊙1B



RM20-9904-G-HDBNC

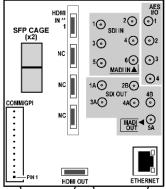




Note: 12G signals over relay bypass path stipulates the maximum cable length not to exceed 10m for a total of both the Input and Output cable lengths.

COMM/GPI PINOUTS 1 - GPI IN 1 2 - GPI IN 2 3 - GPI IN 3 4 - GPI IN 4 5 - GPI IN 5 6 - CPI IN 6

- 4 GPI IN 4 5 - GPI IN 5 6 - GPI IN 6 7 - GND 8 - GND 9 - "COM A_RX1 / 422(-) 10 - "COM A_RX2 / 422(+) 11 - "COM A_TX1 / 422(-) 12 - "COM A_TX2 / 422(-)
- * Port can be GUI-configured as two RS-232 ports (Tx and Rx), or as RS-422 port.
- ** HDMI IN port only present in conjunction with option -H2S. Although multiple ports may be present, only HDMI IN 1 is active.



RM20-9904-K-HDBNC



SPECIFICATIONS

12G/6G/3G/HD/SD-SDI Input/Outputs

(6) 75 inputs (max)

(8) 75 outputs (max)

SDI Formats Supported: SMPTE ST2082-1,10, 424M, 292M, SMPTE 259M-C. All inputs/outputs 12G compliant and SDQS/2SI quad 3G compliant.

Return Loss:

> 15 dB up to 1.485 GHz

> 10 dB up to 3 GHz

> 7 dB up to 6 GHz

> 5 dB up to 12 GHz

Input Cable Length:

45m Belden 1694A cable at 11.88 Gbps / 120m Belden 1694A cable at 2.97 Gbps / 240m Belden 1694A cable at 1.485 Gbps / 400m Belden 1694A cable at 270 Mbps

Output Signal Level: 800 mV ± 10%

DC Offset: 0 V ± 50 mV

Rise and Fall Time @ 11.88 Gbps: < 45 ps

Alignment Jitter (12G/3G/HD/SD): < 0.3/0.3/0.2/0.2 UI

Frame Sync Audio/VIdeo Delay

Max offset: 20 frames (Can be expanded to 60 frames with the **+DLY** option)

Latency (min): 1 frame

User Audio Delay Offset from Video

Bulk delay control: -33 msec to +3000 msec. Per-channel delay controls: -800 msec to +800 msec

AES Audio Inputs/Outputs

(8) AES-3id 75 coaxial ports (max); port direction assignable as inputs or outputs in groups of 4 ports.

Note: Hardware rev -E and later has 8 AES ports; earlier versions have 4 port max.

MADI Audio Inputs/Outputs

(2) 75 coaxial ports (max)

Note: Not all rear modules support full MADI I/O. MADI I/O is a function of Rear Module used and is available only on card with on rev C (or later) hardware with firmware supporting MADI I/O. See Rear Module illustrations for specific information.

HDMI Output

HDMI 2.0 Output; type A standard connector

HDMI Input (Option -H2S only)

HDMI 2.0 Input; mini connector

GPIO

(6) GPI (max); (2) GPO (max)

Note: GPIO max capacity is a function of Rear Module used. See Rear Module illustrations for specific information.

Frame Reference Input

(2) reference from frame bus. SMPTE 170M/318M "Black Burst", SMPTE 274M/296M "Tri-Level"

Frame Loading (Max. recommended number of 9904 cards supported per Frame Model)

- OG3 Frame: (5) cards
- HPF-9000 Frame: (5) cards
- oGx Frame: (7) cards

Note: In all cases, it is recommended to leave a 1RU gap above the frame and set frame Network Controller Card to run the frame cooling fans at full (max.) speed.



ORDERING INFORMATION - PAGE 1 OF 4

Rear Modules:

Note: MADI I/O is available on rev C (or later) hardware with firmware supporting MADI I/O. When enabled MADI In and MADI Out acquire SDI In 6 and SDI Out 5 (respectively) on rear modules that support these I/O. Rear modules that support MADI I/O show the MADI port locations that are SDI IN 6 and SDI OUT 5 alternatives. Rear modules that support MADI are identified below as MADI Compatible.

 Rear modules with SFP access do not come standard with any SFP functionality. Appropriate SFP option must be provisioned for rear module SFP functionality.

SFP port-type availability depends upon SFP Type, rear IO module, and 9904-UDX host card rev as follows:

- Option -UDX-SFP (non-MSA); Card Rev E and earlier with -C, -F, -G rear IO module:
- Top SFP port supports up to 2 Fiber inputs and up to 2 Fiber outputs.
- Bottom SFP port supports up to 2 Fiber inputs.
- Option -UDX-SFP (non-MSA); Card Rev F and later with -C, -F, -G rear IO module:
- Top SFP port supports up to 2 Fiber inputs and up to 2 Fiber outputs.
- Bottom SFP port supports up to 2 Fiber inputs and up to 2 Fiber outputs.
- Option -UDX-SFP (non-MSA); Card Rev E and earlier with -K rear IO:
 - Top SFP port supports up to 2 Fiber inputs and up to 2 Fiber outputs.
- Bottom SFP port is unused (NC).
- Option -UDX-SFP (non-MSA); Card Rev F and later with -K rear IO:
- Top SFP port supports up to 2 Fiber inputs and up to 2 Fiber outputs.
- Bottom SFP port support up to 2 Fiber outputs.
- Option -UDX-SFP-MSA (no card restrictions):
- Top SFP port supports 1 Fiber input and 1 Fiber output.
- Bottom SFP port supports 1 Fiber input and 1 Fiber output.

RM20-9904-A-HDBNC 20-Slot Frame Rear I/O Module (Double-Width) (6) 12G/6G/3G/HD/SD/SD-SDI Inputs, (8) 12G/6G/3G/HD/SD/SD-SDI Processed Outputs, (4) AES I/O (User Selectable), GPIO/COMM, HDMI 2.0 Output (type A standard connector), 100/1000 BaseT Ethernet Port. MADI Compatible. (All coaxial connectors HD-BNC.)

RM20-9904-C-HDBNC 20-Slot Frame Rear I/O Module (Double-Width) (6) 12G/6G/3G/HD/SD/SD-SDI Inputs, (4) 12G/6G/3G/HD/SD/SD-SDI Processed Outputs, GPI/COMM, HDMI 2.0 Output (type A standard connector), (2) SFP cage receptacles (when used in conjunction with option –UDX-SFP or -UDX-SFP-MSA), 100/1000 BaseT Ethernet Port. MADI Compatible. (All coaxial connectors HD-BNC.)

RM20-9904-D-HDBNC 20-Slot Frame Rear I/O Module (Standard-Width) (6) 12G/6G/3G/HD/SD/SD-SDI Inputs, (6) 12G/6G/3G/HD/SD/SD-SDI Processed Outputs, (4) AES I/O, GPIO/COMM, 100/1000 BaseT Ethernet Port. MADI Compatible. (All coaxial connectors HD-BNC.)

RM20-9904-F-HDBNC 20-Slot Frame Rear I/O Module (Double-Width) (6) 12G/6G/3G/HD/SD/SD-SDI Inputs, (9) 12G/6G/3G/HD/SD/SD-SDI Processed Outputs, (8) AES I/O, GPI/COMM, HDMI 2.0 Output (type A standard connector), (2) SFP cage receptacles (when used in conjunction with option – UDX-SFP or -UDX-SFP-MSA), 100/1000 BaseT Ethernet Port. **MADI Compatible**. (All coaxial connectors HD-BNC.)

RM20-9904-G-HDBNC 20-Slot Frame Rear I/O Module (Standard-Width) (4) 12G/6G/3G/HD/SD/SD-SDI Inputs, (4) 12G/6G/3G/HD/SD/SD-SDI Processed Outputs, (3) AES I/O, (2) SFP cage receptacles (when used in conjunction with option –UDX-SFP or -UDX-SFP-MSA), GPIO/COMM **MADI Compatible** (All coaxial connectors HD-BNC.) (**Note:** Mates to card in odd frame slot.)

RM20-9904-H-HDBNC 20-Slot Frame Rear I/O Module (Standard-Width) (5) 12G/6G/3G/HD/SD/SD-SDI Inputs, (7) 12G/6G/3G/HD/SD/SD-SDI Processed Outputs (one 3G/HD/SDI Output with relay bypass fail over), (4) AES I/O, GPIO/COMM MADI Compatible (All coaxial connectors HD-BNC.) (Note: Mates to card in odd frame slot.)

RM20-9904-J-HDBNC 20-Slot Frame Rear I/O Module (Standard-Width) (5) 12G/6G/3G/HD/SD/SD-SDI Inputs, (7) 12G/6G/3G/HD/SD/SD-SDI Processed Outputs (one 3G/HD/SDI Output with relay bypass fail over), (4) AES I/O, GPIO MADI Compatible (All coaxial connectors HD-BNC.) (**Note:** Mates to card in **odd** frame slot.)



ORDERING INFORMATION - PAGE 2 OF 4

RM20-9904-K-HDBNC 20-Slot Frame Rear I/O Module (Double-Width) (6) 12G/6G/3G/HD/SD/SD-SDI Inputs, (6) 12G/6G/3G/HD/SD/SD-SDI Processed Outputs, (4) AES I/O, COMM/GPI, HDMI 2.0 Output (type A standard connector), (1) HDMI 2.0 Input (mini connector) (when used in conjunction with option –H2S), (2) SFP cage receptacles (when used in conjunction with SFP option), 100/1000 BaseT Ethernet Port MADI Compatible (All coaxial connectors HD-BNC.)

Options:

- **Note:** Options denoted as "+" are **software-based** options which are available on new product when ordered or can be customer field-installed as a software upload upgrade.
 - Options or ordering line items denoted as "-" are **hardware-based** options/items. These options are available as factory-installed only on new products, or product returned to Cobalt for factory installation.

+HDR-TCHCLR-4K 4K SDR/HDR Conversion Option

(This option includes SL-HDR encode, SL-HDR decode, and ITM Intelligent Tone Management.)

- +HDR-TCHCLR SDR/HDR Conversion Option (This option includes SL-HDR encode, SL-HDR decode, and ITM Intelligent Tone Management.)
- +3DLUT-PRO-4K 3D LUT 4K Option (compatible with up-mapping to HDR and processing for down-conversions to HD SDR color space)
- +3DLUT-PRO 3D LUT Option (compatible with processing for down-conversions to HD SDR color space)
- +3D-LUT-BBC BBC 3DLUT Option (Requires +3D-LUT-PRO or +3D-LUT-PRO-4K option to also be present to support this option)
- +COLOR-4K 4K Color Correction Option
- +COLOR Color Correction Option
- +DUAL-OUTPUT-9904 Enables 4K and HD outputs on the 9904-UDX series
- +SCTE104-FAST Frame Accurate SCTE104 Trigger. Software option available (per path)
- +DLY Option expands the delay capability to 60 frames. (All video formats) NOTE: Not available if +DUAL-OUTPUT-9904 option is installed.
- **+QC** Option Quality Check allows criteria such as black/ frozen frame events to propagate an event alert. This alert can be used by the card Presets function to invoke video routing changes, GPO, and other actions.



ORDERING INFORMATION - PAGE 3 OF 4

- +KEYER-4K 4K Key/Fill Keyer (Alpha) Option (Additional second option license enables a second independent keyer block.)
- +KEYER Key/Fill Keyer (Alpha) Option (Additional second option license enables a second independent keyer block.)
- **+UDX-DANTE-16x16** 16x16 Dante 16 channel input 16 channel output option. **NOTE:** Cannot be used simultaneously with +HDR-TCHCLR and +LOGO
- +LOGO-4K 4K Logo Insertion Option
- +LOGO Logo Insertion Option
- +LTC Audio LTC I/O Option
- -H2S Adds daughter card supporting externally-accessible HDMI input port; orderable as new option. **Note:** To support HDMI input option -H2S, this option is required in addition to card fitted with rear module (such as RM20-9904-B-HDBNC) that allows access to the daughter card -located HDMI input connector.
- **-UDX-SFP-MSA** Adds daughter card supporting externally-accessible dual MSA SFP cage; orderable as new option. **Note:** To support SFP option(s) this option is required in addition to desired specific SFP options below. The SFP modules listed below are available for the 9904-UDX-4K card when also fitted with SFP option -UDX-SFP-MSA.
- -UDX-SFP-MSA-2S is required where 2-slot ("Standard-Width") rear module (such as RM20-9904-G-HDBNC) is to be fitted with SFP option.
- -UDX-SFP-MSA-4S is required where 4-slot ("Double-Width") rear module (such as RM20-9904-C-HDBNC, RM20-9904-F-HDBNC, or RM20-9904-K-HDBNC) is to be fitted with SFP option. Rear modules RM20-9904-C-HDBNC, RM20-9904-F-HDBNC, RM20-9904-G-HDBNC, or RM20-9904-K-HDBNC and option -UDX-SFP-MSA-2S or -UDX-SFP-MSA-4S are purchased and available separately.
- -SFP-E00E-MSA-12G 12G/6G/3G/HD/SD-SDI UHD Transceiver (LC female connectors)
- -SFP-EO-MSA-12G 12G/6G/3G/HD/SD-SDI UHD Transmitter (LC female connector)
- -SFP-0E-MSA-12G 12G/6G/3G/HD/SD-SDI UHD Receiver (LC female connector)
- -SFP-EOOE-MSA Single-Channel Video Optical Transceiver (LC female connectors)
- -SFP-EO-MSA Single-Channel Video Optical Transmitter (LC female connector)
- -SFP-OE-MSA Single-Channel Video Optical Receiver (LC female connector)
- -SFP-IP-SWD-MSA Software-Defined MSA SFP 2011/2022-6 Encap/De-Encap Host. 10GigE Multi-Mode Optical Interface with Female LC Duplex Connectors. The following I/O purposing software options are available for cards using SFP type -SPF-IP-SWD-MSA (Up to 3 software licenses can be added to the -SFP-IP-SWD-MSA, but only 1 license can be active at a time):
- +ADD-SFP-IP-TO-SDI-2022-6 SFP Software License; Single-Channel De-Encapsulator IP-2022-6-to-SDI
- +ADD-SFP-IP-T0-SDI-2110 SFP Software License; Single-Channel De-Encapsulator IP-2110-to-SDI
- +ADD-SFP-SDI-TO-IP-2022-6 SFP Software License; Single-Channel Encapsulator SDI-to-IP-2022-6
- +ADD-SFP-SDI-TO-IP-2110 SFP Software License; Single-Channel Encapsulator SDI-to-IP-2110



ORDERING INFORMATION - PAGE 4 OF 4

-UDX-SFP Adds daughter card supporting externally-accessible dual SFP cage; orderable as new option. Note: To support SFP option(s), this option is required in addition to desired specific SFP options below. The SFP modules listed below are available for the 9904-UDX-4K card when also fitted with SFP option -UDX-SFP.

• -UDX-SFP-MSA-4S daughter card is used with 4-slot ("Double-Width") rear module (such as RM20-9904-C-HDBNC, RM20-9904-F-HDBNC, or RM20-9904-K-HDBNC). UDX-SFP-MSA is only available for use in conjunction with 4-slot rear modules and daughter card -UDX-SFP-MSA-4S).

Rear modules RM20-9904-C-HDBNC, RM20-9904-F-HDBNC, RM20-9904-K-HDBNC and option -UDX-SFP-MSA-4S are available separately.

- -SFP-E00E-12G 12G/6G/3G/HD/SD-SDI UHD Transceiver (LC female connectors)
- -SFP-E0-12G 12G/6G/3G/HD/SD-SDI UHD Transmitter (LC female connector)
- -SFP-0E-12G 12G/6G/3G/HD/SD-SDI UHD Receiver (LC female connector)
- -SFP-2E0-12G 12G/6G/3G/HD/SD-SDI UHD Dual Transmitter (LC female connector)
- -SFP-20E-12G 12G/6G/3G/HD/SD-SDI UHD Dual Receiver (LC female connector)
- -SFP-EOOE Single-Channel Video Optical Transceiver (LC female connectors)
- -SFP-EO Single-Channel Video Optical Transmitter (LC female connector)
- -SFP-OE Single-Channel Video Optical Receiver (LC female connector)
- -SFP-2EO Dual-Channel Video Optical Transmitter (LC female connector)
- -SFP-20E Dual-Channel Video Optical Receiver (LC female connector

-SFP-IP-SWD Software-Defined EmSFP; 2011/2022-6 Encap/De-Encap Host. 10GigE Multi-Mode Optical Interface with Female LC Duplex Connectors. The following I/O purposing software options are available for cards using SFP type -SPF-IP-SWD (Up to 3 software licenses can be added to the -SFP-IP-SWD, but only 1 license can be active at a time):

- +ADD-SFP-2SDI-TO-IP-2022-6 SFP Software License; Dual-Channel Encapsulator 2SDI-to-IP-2022-6
- +ADD-SFP-2SDI-TO-IP-2110 SFP Software License; Dual-Channel Encapsulator 2SDI-to-IP-2110
- +ADD-SFP-IP-T0-2SDI-2022-6 SFP Software License; Dual-Channel De-Encapsulator IP-2022-6-to-2SDI
- +ADD-SFP-IP-T0-2SDI-2110 SFP Software License; Dual-Channel De-Encapsulator IP-2110-to-2SDI
- +ADD-SFP-IP-TO-SDI-2022-6 SFP Software License; Single-Channel De-Encapsulator IP-2022-6-to-SDI
- +ADD-SFP-IP-TO-SDI-2110 SFP Software License; Single-Channel De-Encapsulator IP-2110-to-SDI
- +ADD-SFP-SDI-TO-IP-2022-6 SFP Software License; Single-Channel Encapsulator SDI-to-IP-2022-6
- +ADD-SFP-SDI-TO-IP-2110 SFP Software License; Single-Channel Encapsulator SDI-to-IP-2110